



# Emilia Gan

CS Graduate Student

## Experience

**Address**  
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github.com/efran

09/16 - now **Teaching Assistant & Lecturer** [Paul G. Allen School of CS & E, UW-Seattle](#)  
Lecturer for Data Programming (CSE 160, Winter 2019) & Teaching Assistant for Artificial Intelligence, Data Structures and Algorithms, Data Programming, and Serious Games in Python. Experienced leading sections, conducting office hours, and guest lecturing.

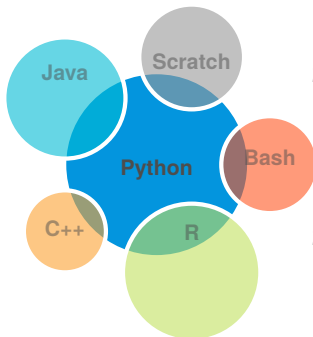
August 2019 **Guest Lecturer** [Informatica Feminale, University of Bremen \(Germany\)](#)  
Taught two workshops – one on Data Programming using Python and one on Bioinformatics using Python.

06/17 - 09/17 **Analytics Intern** [Code.org, Seattle](#)  
Summer internship researching learners' use of the Code.org site. Performed statistical analyses of data on users' progress on Code.org activities and prepared data visualizations using Tableau and R.

03/10 - now **Instructor - Computer Science & Statistics** [Seattle area colleges](#)  
Adjunct instructor, currently teaching CS classes at South Seattle College. Mentored students conducting undergraduate research in data science.

07/98 - 03/00 **Family Practice Resident** [University of Massachusetts Medical School](#)  
Cared for my own panel of patients in a Neighborhood Family Health Clinic in Worcester, MA.

## Programming



## Education

2016 - Now **Computer Science PhD Program** [Paul G. Allen School of CS & E, UW-Seattle](#)  
Studying patterns of programmatic skills development and behavior in users of the Scratch online programming platform. Research interests include data science, artificial intelligence, computer science education.

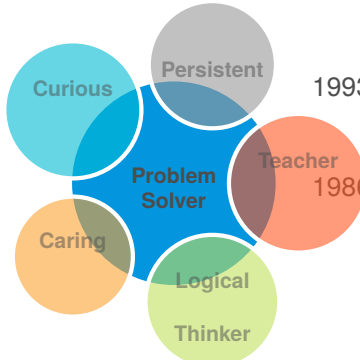
2016 - 2019 **Master's Degree in Computer Science** [University of Washington, Seattle](#)  
Researched factors affecting sharing of creative artifacts on the Scratch programming platform.

2011 - 2016 **Master's Degree in Pathobiology** [University of Washington, Seattle](#)  
Researched Kaposi's Sarcoma-associated Herpesvirus gene expression using RNA Sequencing. Master's Thesis: *Using the R package Shiny to create web applications that facilitate quantitative gene expression analysis*

1993 - 1998 **Doctor of Medicine (M.D.)** [University of Massachusetts Medical School](#)  
Focused on primary care and medical ethics.

1986 - 1990 **Bachelor's Degree in Materials Science and Engineering** [MIT](#)  
Conducted undergraduate research internships at Intel Corporation(Chandler, AZ, summer 1988) and GE Aircraft Engines (Lynn, MA, summer 1989).

## Personal Skills



## OS Preference

Windows ★★★★★  
MacOS ★★★★★  
GNU/Linux ★★★★★

## Other Places Lived



## Languages

English ★★★★★  
French ★★★★★  
Spanish ★★★★★  
German ★★★★★

## Publications & Presentations

Emilia Gan, Benjamin Mako Hill, Sayamindu Dasgupta

### Feedback, Gender, and Learners' Decisions to Share Their Creative Computing Projects

Presented at CSCW'18, the 21st ACM Conference on Computer-Supported Cooperative Work and Social Computing

<https://dl.acm.org/citation.cfm?doid=3290265.3274323>

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### Gender Differences in Patterns of Project Sharing on the Scratch Online Programming Community

Presented at The Digital Media and Learning Conference, DML 2017

A. Gregory Bruce, Serge Barcy, Terri DiMaio, Emilia Gan, H. Jacques Garrigues, Michael Lagunoff and Timothy M. Rose

### Quantitative Analysis of the KSHV Transcriptome Following Primary Infection of Blood and Lymphatic Endothelial Cells

*Pathogens* 2017, 6, 11; doi:10.3390/pathogens6010011

Emilia Gan and Ravi Gandham

### Bringing Introductory Computer Science Concepts to Life Using Graphics

Poster, Presented at PyCon 2016

## Honors & Awards

- 04/2019 **Scan|Design Summer Fellowship** [Scan|Design Foundation](#)  
Awarded a fellowship to conduct independent study on computer science and technical education in Denmark and to take a summer course, Game.Play.Design, at Aarhus University.
- 01/2018 **Graduate Cohort Workshop Student Scholarship** [CRA-W](#)  
Computing Research Association - Women:  
*National mentoring workshop for women working towards graduate degrees in computer science.*
- 07/2015 **SISBD Student Scholarship** [University of Washington](#)  
Summer Institutes in Statistics for Big Data:  
*Attended workshops on big data and unsupervised machine learning.*
- 08/2014 **Student Fellowship** [Data Science Dojo](#)  
Data Science Bootcamp:  
*Immersive bootcamp giving practical, hands-on introduction to data science.*

## Volunteer Activities

- 2014 - Now **Mentor** [University of Washington](#)  
Community Data Science Workshops:  
*Assist at workshops teaching researchers how to use Python for data analysis.*
- 2015 - Now **Instructor & Helper** [Software Carpentry](#)  
Software Carpentry Workshops:  
*Trained Software Carpentry Instructor – Lead/assist at sessions to teach researchers and graduate students programming skills.*
- 04/2020 **Mentor** [CodeDay.org](#)  
Virtual CodeDay Event:  
*Served as a mentor for novice youth programmers.*